

Briefing For: 40MM Industry Day 29 Jan 2004

ARDEC 40MM GRENADE 3D TDP CONVERSION EFFORT

PRESENTED BY:

RAYMOND COIRO

TEAM LEADER

DRAFTING ECP/ERR TEAM

CONFIGURATION MANAGEMENT - TECH DATA

rcoiro@pica.army.mil 973-724-3629

GOALS

- To create and provide to the PM a 3D Technical Data Package (TDP) available for competitive bid.
- Provide 3D Models and Drawings for the 40MM Family of Grenades in accordance with ARDEC 3D TDP Standards.
- Bring 3D Modeling Technology In-House (ARDEC) instead of out-sourcing to other facilities and contractors.

3D TDP Standards and Modeling

- All 3D Models and Drawings are being created using the policies set fourth by ARDEC for creating 3D TDP's.
- All modeling is being done in-house and two full-time contractor employees are assigned to the job.

Completed 3D TDP Deliverable for Contract

3D Technical Data Package Consisting of:

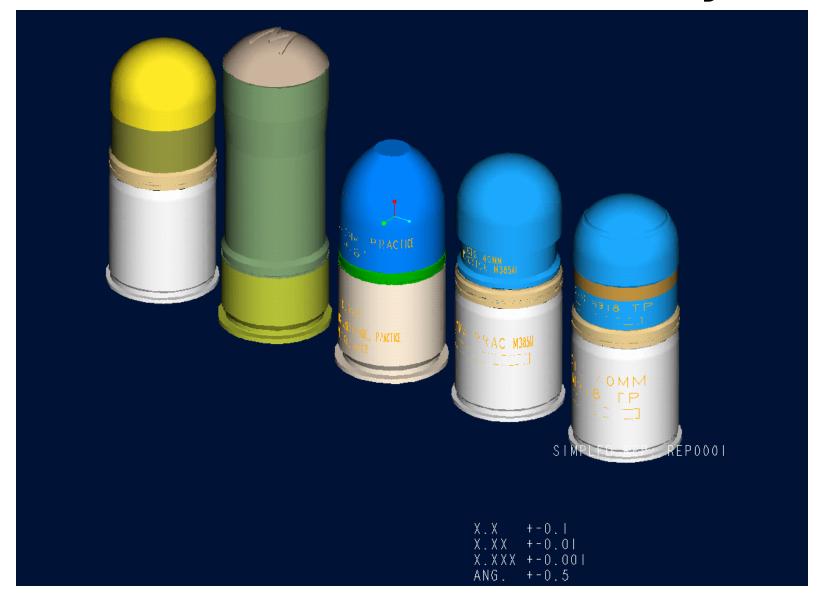
Disc One

1. PDF Format of all 2D ProE Drawings. (Contractually Binding)

Disc Two (Bonus Disc)

- 1. ProEngineer 3D Models and Drawings.
- 2. STEP format of all 3D Models.
- 3. VRML files of all 3D Models.

40MM Grenade Family



40 MM 3D Conversion Status

M385A1 Practice

3D Models/Detail Drawings, completed as scheduled for Engineering Review: November 5, 2003

M169 Cartridge Case

3D Models/Detail Drawings, completed as scheduled for Engineering Review: November 5, 2003

M918 Practice

3D Models/Detail Drawings, completed as scheduled for Engineering Review: December 3, 2003

M781 Practice

3D TDP (Technical Data Package) completed and available for procurement from Tech Data.

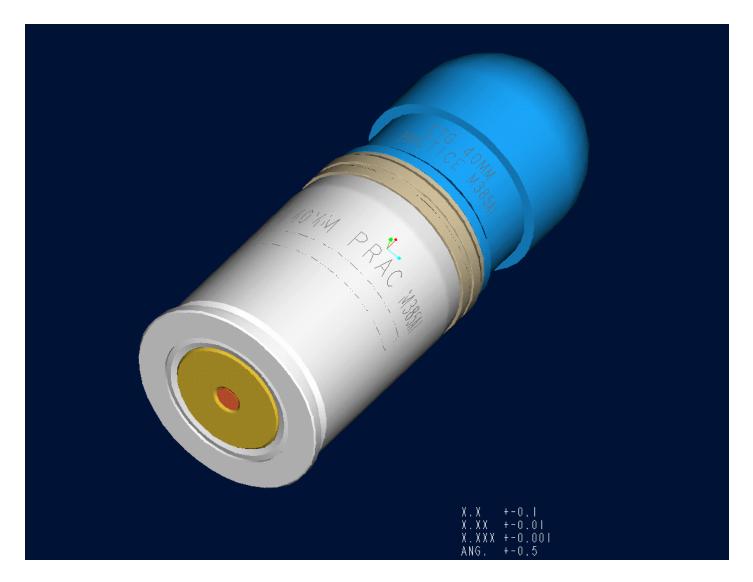
40 MM 3D Conversions Status cont.

- M583A1 White Star Para Scheduled completion date: Feb. 25th 2004
 3D Models WIP (work in progress), 25% completed.
 Drawings WIP, 3% completed.
- M16A2 40MM LINK Revised completion date: Feb. 11th 2004
 3D Models WIP, 90% completed.
 Drawings WIP, 50% completed.
- M430A1 HEDP Revised completion date: Feb. 11th 2004
 3D Models WIP, 75% completed.
 Drawings WIP, 10% completed.
- M433 Scheduled completion date: Feb. 27th 2004
 3D Models/Detail Drawings are being completed at Rock Island Arsenal.
 3D Models WIP, 75% completed.
 Drawings WIP, 60% completed.

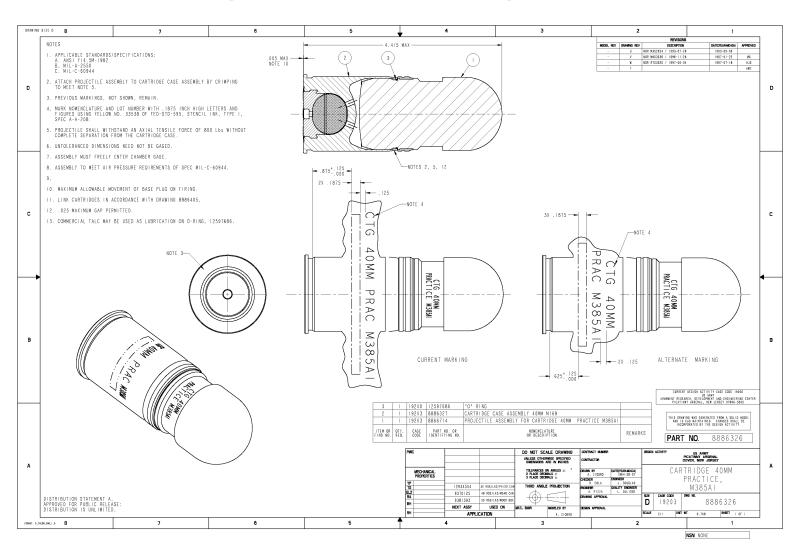
40MM, Practice, M385A1

 3D Models/Drawings Completed as scheduled - 11/05/2003 for Engineering Review.

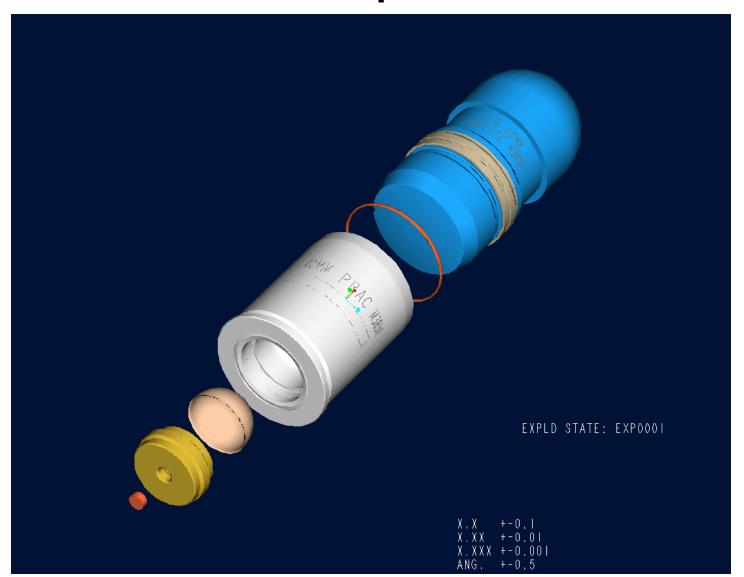
40MM, Practice, M385A1



40MM, M385A1, Practice



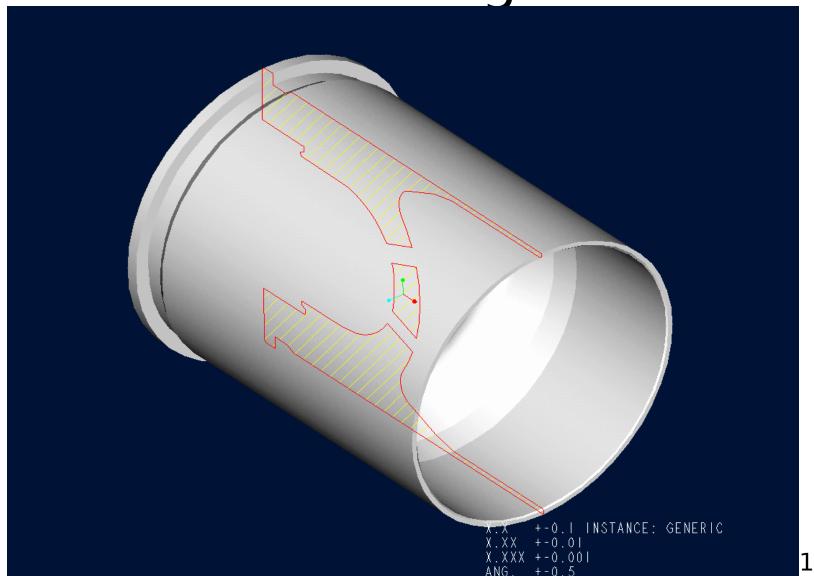
M385A1 Exploded View



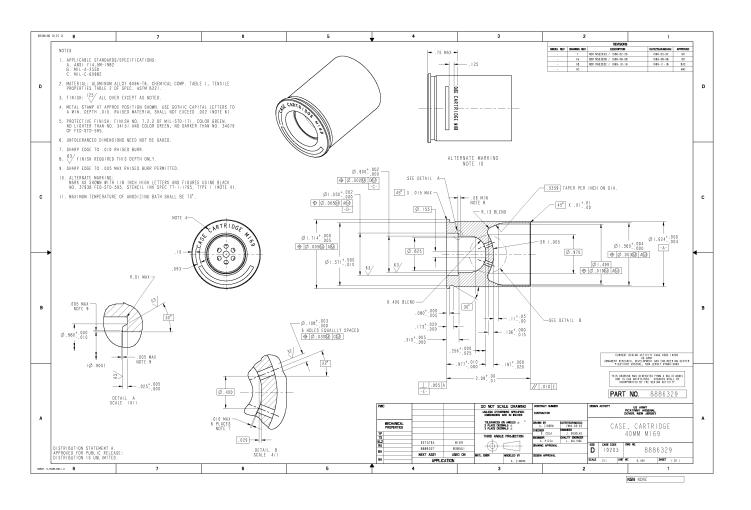
40MM, M169 CARTRIDGE CASE

Used in M385A1
3D Models/Drawings
Completed as scheduled 11/05/2003 for Engineering
Review.

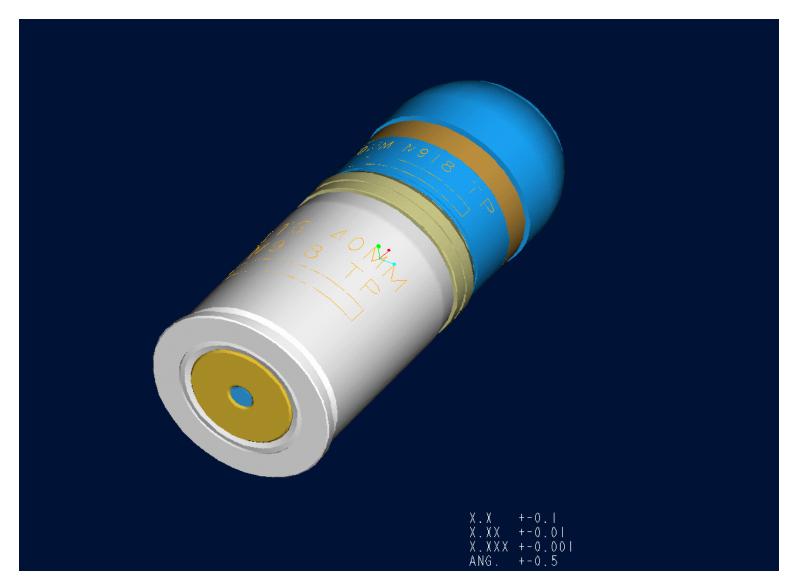
M169 Cartridge Case

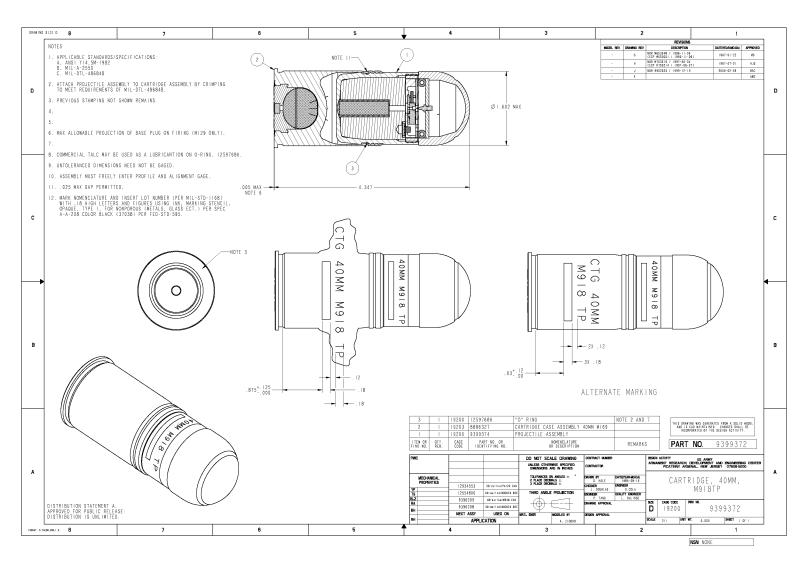


Case, Cartridge 40MM M169 for M385A1

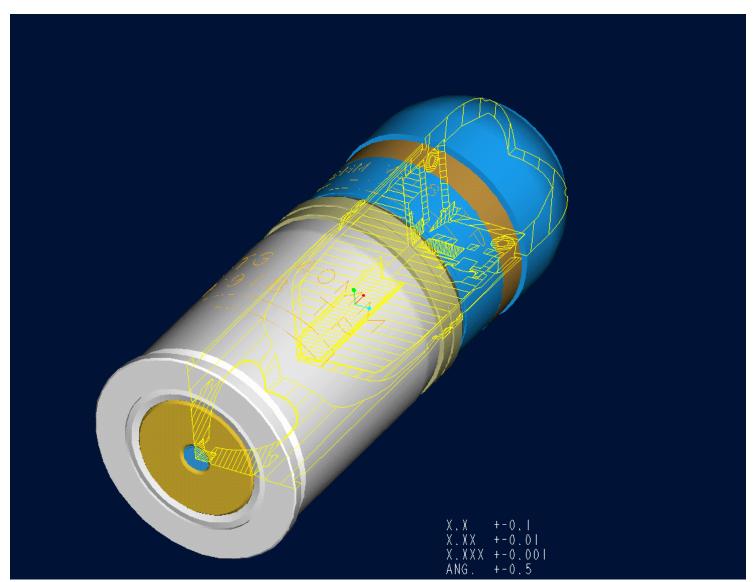


 3D Models/Drawings Completed as scheduled - 12/03/2003 for Engineering Review.

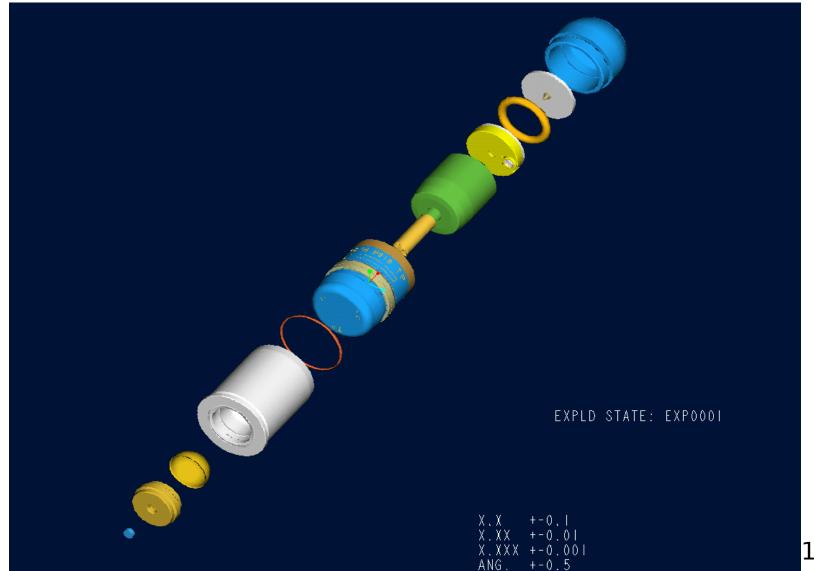




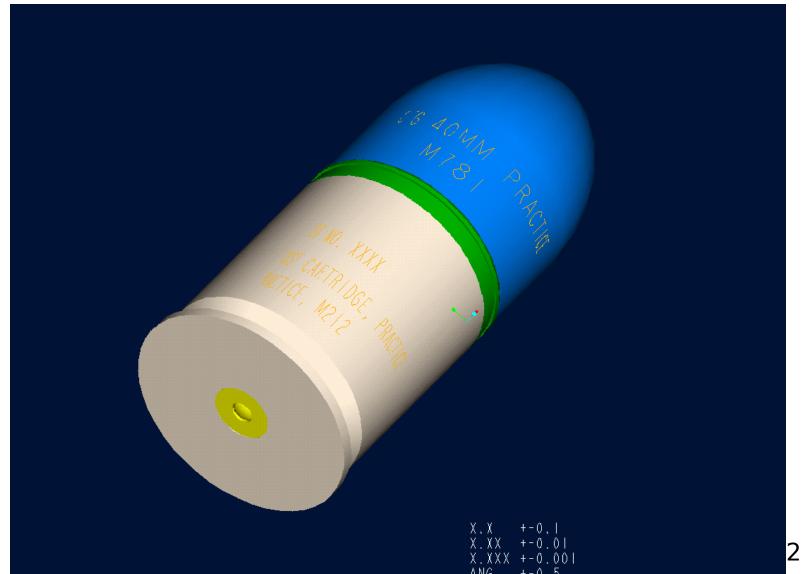
M918 Cross Section



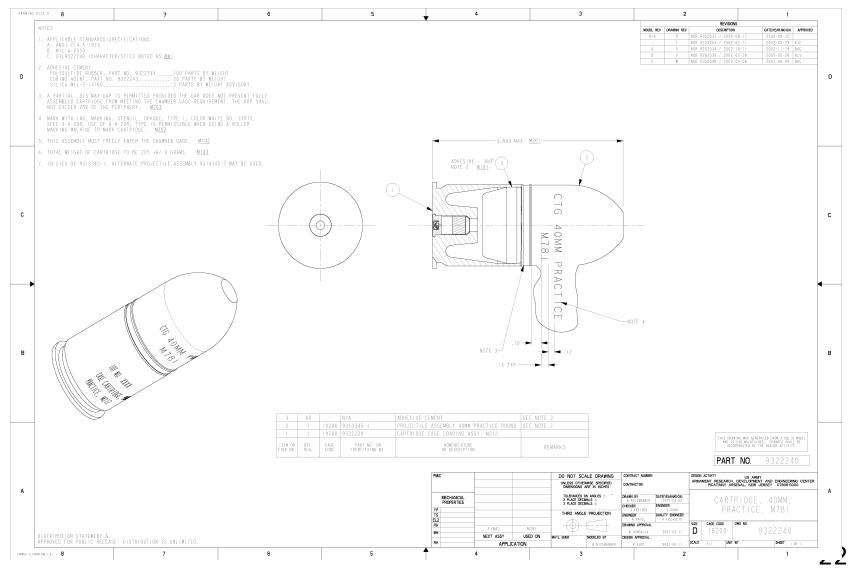
M918 Exploded View



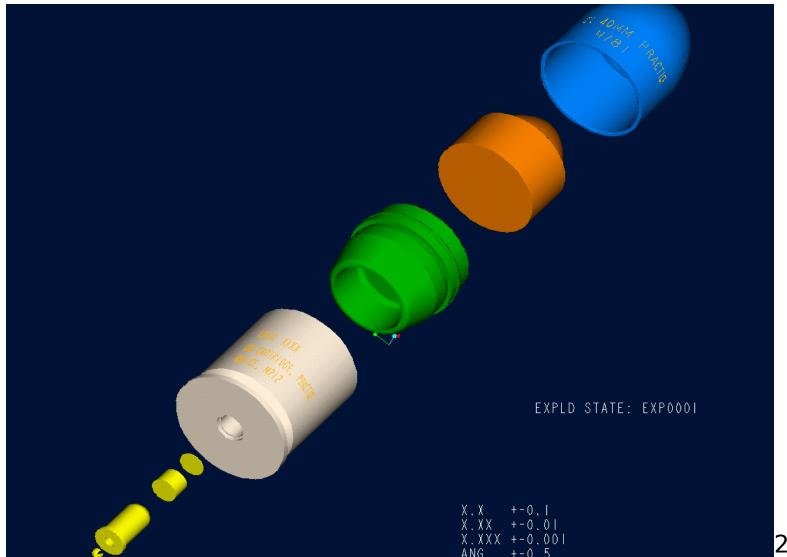
 3D Models/Drawings have been released for Tech Data and are available for 3D TDP.



40MM, M781, Practice



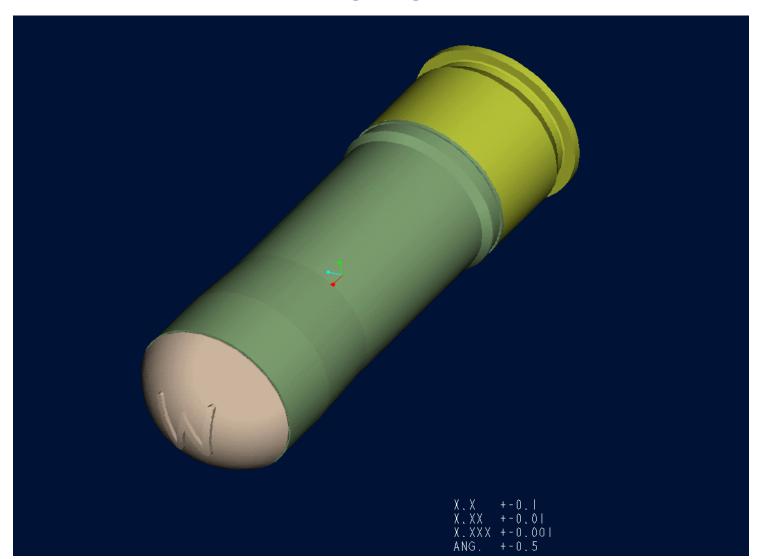
M781 Exploded View



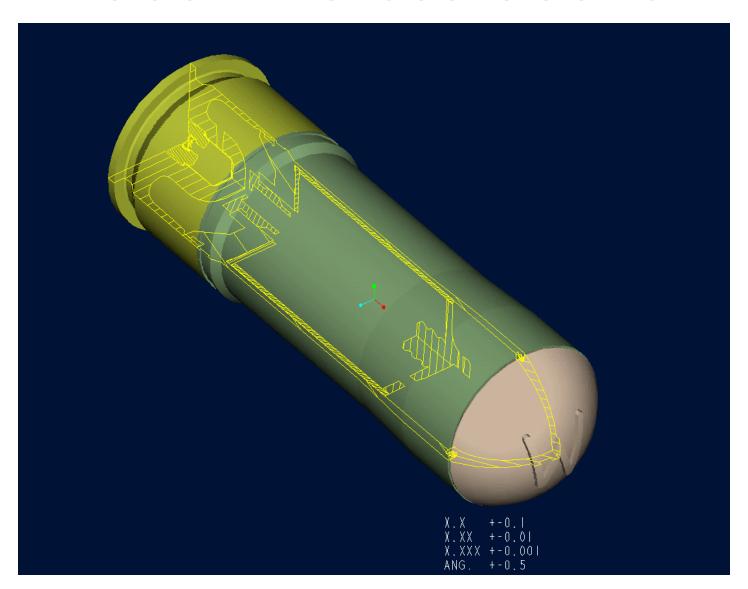
40MM, M583A1 White Star Para

 Scheduled Completion Date 02/25/2004 for 3D Models/Drawings for Engineering Review.

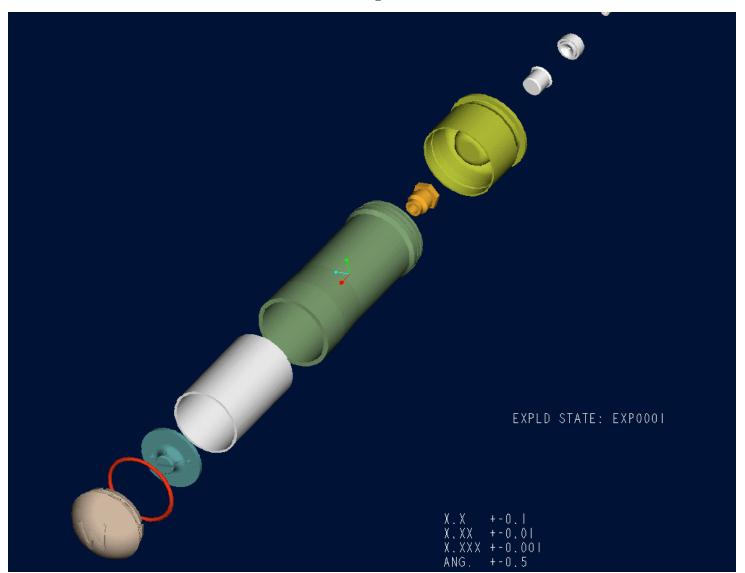
40MM, M583A1, White Star Para



M583A1 Cross-Section



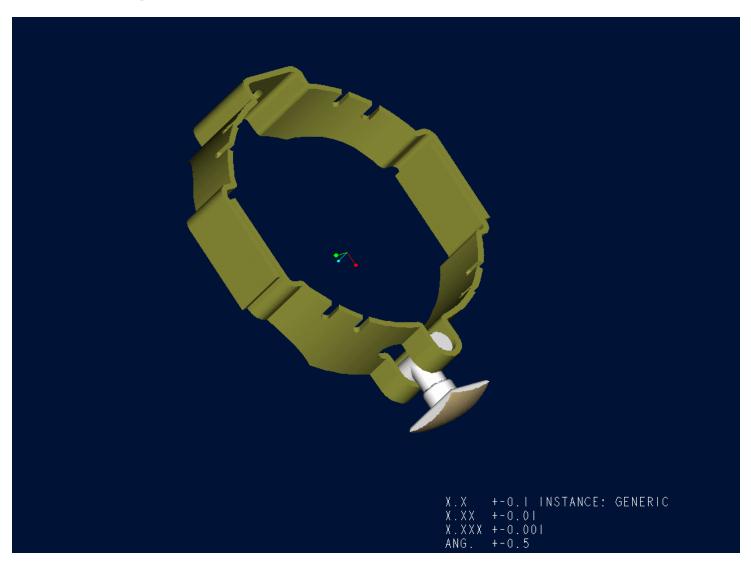
M583A1 Exploded View



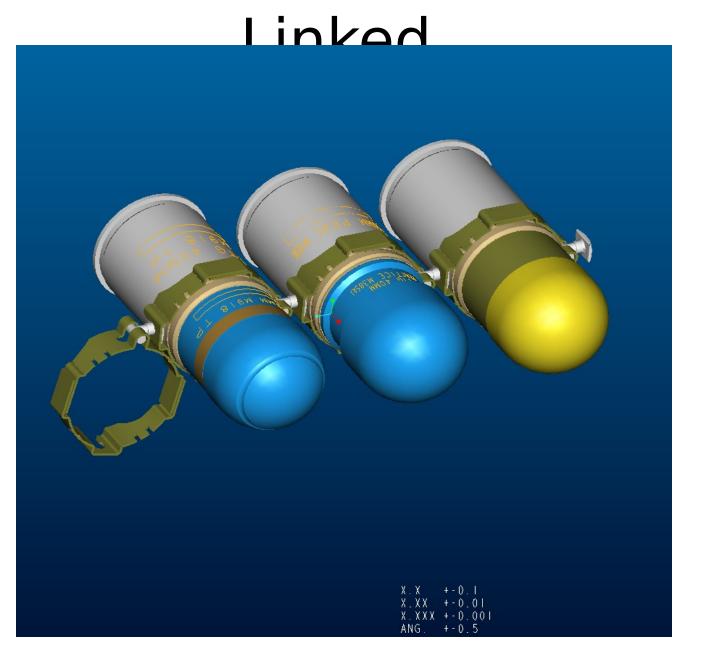
40MM, M16A2 Grenade Link

 Scheduled Completion Date 02/11/2004 for 3D Models/Drawings for Engineering Review.

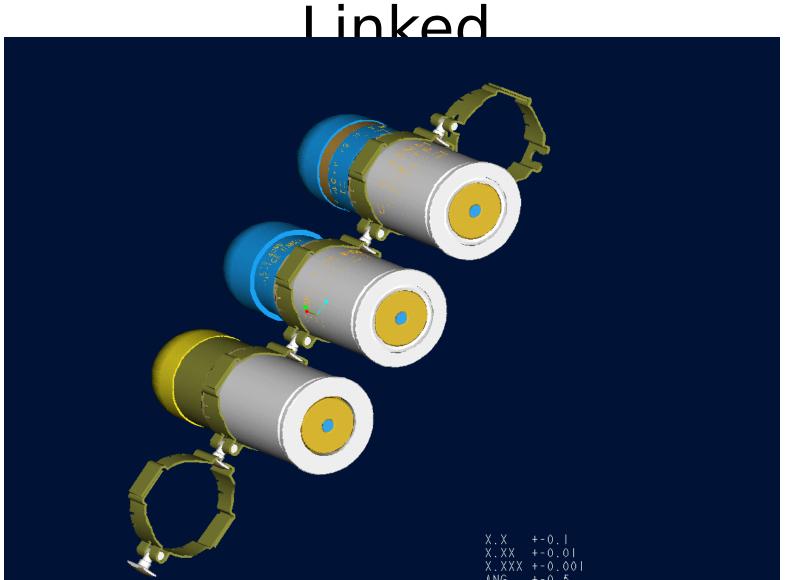
40MM, M16A2 Grenade Link



40MM, M16A2 Grenade



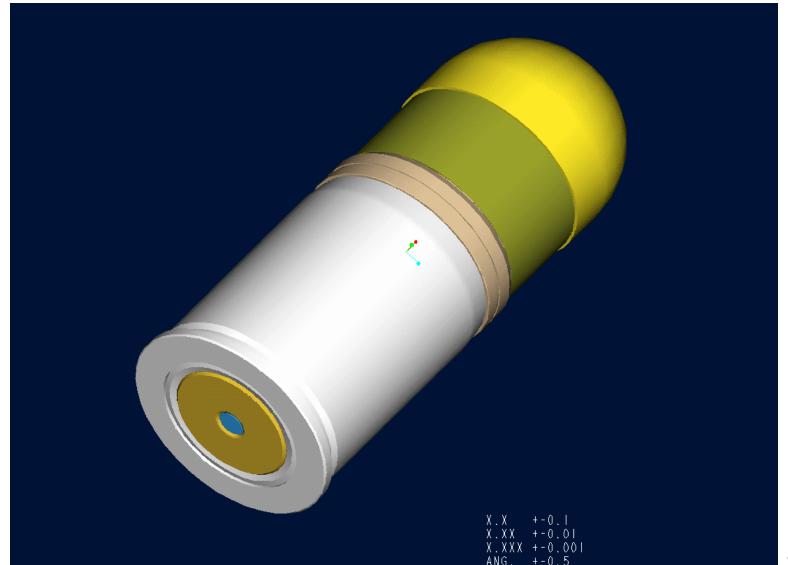
40MM, M16A2 Grenade



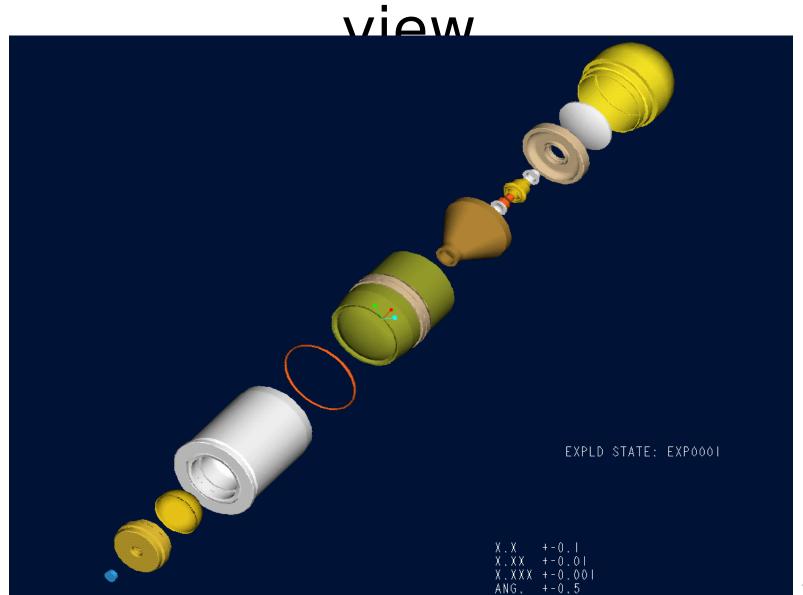
40MM, M430A1 HEDP

 Scheduled Completion Date 02/11/2004 for 3D Models/Drawings for Engineering Review.

40MM, M430A1 HEDP



40MM M430A1 Exploded



CONCLUSION

 To make the PM and Customers happy by providing an up-to-date 3D TDP and passing on the 3D Technology to the PM and customer.

Questions

Raymond Coiro

 (973) 724-3629
 DSN 880-3629
 rcoiro@pica.army.mil